

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 19:31:38 ; Search time 4930.81 Seconds
(without alignments)
17544.846 Million cell updates/sec

Title: US-09-301-380-1
Perfect score: 4134
Sequence: 1 ctccaaggtcccccgcacga.....tgggtagagagatatttc 4134

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues
Total number of hits satisfying chosen parameters: 799276

Minimum DB seq length: 15
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*
1: gb_da.*
2: gb_htg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sts.*
12: gb_sy.*
13: gb_un.*
14: gb_vl.*
15: em_da.*
16: em_fun.*
17: em_hum.*
18: em_in.*
19: em_mu.*
20: em_om.*
21: em_or.*
22: em_ov.*
23: em_pat.*
24: em_ph.*
25: em_pl.*
26: em_ro.*
27: em_sts.*
28: em_un.*
29: em_vl.*
30: em_htg_hum.*
31: em_htg_inv.*
32: em_htg_other.*
33: em_htgo_inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description

C	1	28	0.7	29	6	AX099610	AX099610 Sequence
	2	27.2	0.7	87	14	ROTVP7AK	M37350 Homo sapien
	3	27.2	0.7	87	14	ROTVP7AL	M37351 Homo sapien
	4	25.8	0.6	89	4	AF213231	AF213231 Bison bis
	5	25.6	0.6	87	14	ROTVP7AJ	M37349 Homo sapien
	6	25.6	0.6	87	14	ROTVP7AM	M37352 Homo sapien
	7	25.6	0.6	87	14	ROTVP7AN	M37353 Homo sapien
	8	25.4	0.6	93	4	AF213232	AF213232 Bison bis
	9	25.4	0.6	94	5	AF272967	AF272967 Mastacomb
	10	25	0.6	70	6	I71468	I71468 Sequence 9
	11	24.8	0.6	97	5	AF174509	AF174509 Torrentop
	12	24.8	0.6	97	5	AF174510	AF174510 Torrentop
	13	24.6	0.6	90	12	SYNDEL951	M10780 X.laevs DN
	14	24.4	0.6	70	8	AF326227	AF326227 Arabidops
	15	24.4	0.6	86	1	S45981	S45981 Selenoprote
	16	24.4	0.6	92	5	XEIMYHCA	M27234 Xenopus lae
	17	24.2	0.6	84	10	S79629	S79629 HSRF- alpha
	18	24.2	0.6	95	3	AGXH434	272086 A.gambiae s
	19	24.2	0.6	95	6	AX135308	AX135308 Sequence
	20	24.2	0.6	100	11	HUMU931A	L31299 Human STS U
	21	24	0.6	87	14	ROTVP7AI	M37348 Homo sapien
	22	24	0.6	87	14	ROTVP7AO	M37354 Homo sapien
	23	24	0.6	92	6	AX192611	AX192611 Sequence
	24	23.8	0.6	90	12	SYNDEL952	M10781 X.laevs DN
	25	23.8	0.6	94	5	AF272954	AF272954 Monopteru
	26	23.8	0.6	94	5	AF272968	AF272968 Mastacomb
	27	23.8	0.6	98	8	OSA307923	AJ307923 Oryza sat
	28	23.6	0.6	67	6	A60774	A60774 Sequence 83
	29	23.6	0.6	90	3	DMADHAESA	X66233 D.melanogas
	30	23.6	0.6	95	4	AF247752	AF247752 Gulo gulo
	31	23.6	0.6	95	6	AX283217	AX283217 Sequence
	32	23.6	0.6	97	6	HUM13COL15	M68981 Human alpha
	33	23.4	0.6	66	6	AR068708	AR068708 Sequence
	34	23.4	0.6	66	6	ARI56638	ARI56638 Sequence
	35	23.4	0.6	66	6	E15527	E15527 Primer 7/1
	36	23.4	0.6	81	6	A21367	A21367 Repeat nucl
	37	23.4	0.6	97	4	AF213233	AF213233 Bison bis
	38	23.2	0.6	72	6	AX036609	AX036609 Sequence
	39	23.2	0.6	96	6	AX103760	AX103760 Sequence
	40	23.2	0.6	96	6	CNSOLAF0	AL112876 Botrytis
	41	23.2	0.6	59	8	A13167	A13167 Artificial
	42	23	0.6	59	10	KMITPRK08	U09920 Mus muscuu
	43	23	0.6	74	9	HUMIGDUG	L35136 Human IG pr
	44	23	0.6	79	11	AF084216	AF084216 Mus muscu
	45	23	0.6	90	12	SYNDEL41	M10778 X.laevs DN

ALIGNMENTS

RESULT	LOCUS	SEQUENCE	29 bp	DNA	linear	PAT	02-APR-2001
1	AX099610/c	AX099610	250	from Patent WO0119988.			
	DEFINITION	AX099610					
	ACCESSION	AX099610					
	VERSION	AX099610.1	GI:13538665				
	KEYWORDS						
	SOURCE						
	ORGANISM						
	REFERENCE						
	AUTHORS						
	TITLE						
	JOURNAL						
	FEATURES						
	SOURCE						

misc_feature 2
/note="Biotinylated phosphoramidite residue"

BASE COUNT	7 a	9 c	4 g	8 t	1 others
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Best Local Similarity	96.6%;	Pred. No. 2.9e+04;			
Matches 28;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;	
QY 75 aaggaattcagctgtgtgagctcagcag 103					
Db 29 AAGGAATTCAGTGTGTGAGCTCAGCAG 1					
RESULT 2					
LOCUS ROTVP7AK					
DEFINITION Homo sapiens rotavirus 2 (strain 2743) outer capsid protein (VP7)					
ACCESSION M37350					
VERSION M37350.1					
KEYWORDS VP7 gene; outer capsid protein.					
SOURCE Human rotavirus 2 (strain 2743) RNA.					
ORGANISM Human rotavirus 2					
REFERENCE 1 (bases 1 to 87)					
AUTHORS Green,K.Y., Sears,J.F., Taniguchi,K., Midhun,K., Hoshino,Y., Gorzilia,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M. and Flores,J.					
TITLE Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene					
JOURNAL J. VIROL. 62, 1819-1823 (1988)					
MEDLINE 86188272					
FEATURES					
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/product="outer capsid protein"					
/protein_id="AA047369.1"					
/db_xref="GI:548269"					
/translation="AENKNETSDEMENTKTTDVSTREIVASS"					
BASE COUNT 32 a 11 c 22 g 22 t					
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Best Local Similarity	61.1%;	Pred. No. 5.2e+04;			
Matches 44;	Conservative 0;	Mismatches 28;	Indels 0;	Gaps 0;	
QY 818 ctgtgaagtgattcattcagtgatgataatgataacatactagctgctaattcagtgaca 877					
Db 8 CTAAATAAGAGATTTCAGATGATGATGATGGAGAAATACATAAACTACGACGTGATCACT 67					
QY 878 ctgagctttatcg 889					
Db 68 TTGAGATGAGTTG 79					
RESULT 3					
LOCUS ROTVP7AL					
DEFINITION Homo sapiens rotavirus 2 (strain 2899) outer capsid protein (VP7)					
ACCESSION M37351					
VERSION M37351.1					
KEYWORDS VP7 gene; outer capsid protein.					
SOURCE Human rotavirus 2 (strain 2899) RNA.					
ORGANISM Human rotavirus 2					

REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE	FEATURES
1 (bases 1 to 87)	Viruses: dsRNA viruses; Reoviridae; Rotavirus.				
1 (bases 1 to 87)	Green, K.Y., Sears, J.F., Taniguchi, K., Midtun, K., Hoshino, Y., Goz, J.I., M., Nishikawa, K., Urasawa, S., Kapikian, A.Z., Chanock, R.M., and Flores, J.	Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene	J. Virol. 62, 1819-1823 (1988)	88188272	
LOCATION/Qualifiers					
1..87	/organism="Human rotavirus 2"				
/strain="2899"					
/db_xref="taxon:36429"					
1..87					
/gene="VP7"					
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/gene="VP7"					
/codon_start=1					
/product="outer capsid protein"					
/protein_id="AAA47370.1"					
/db_xref="GI:548271"					
/translation="AEAKNEISDDEMENTKTDTVSTPEIVASS"					
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Best Local Similarity	61.1%: Pred. No. 5.2e+04;				
Matches	44; Conservative	0; Mismatches	28; Indels	0; Gaps	0;
OY	818	ctgtgaagtgatctcagtgatgaattgaacactatagctgctaattgagtgaca	877		
Db	8	CTAAATAAGACATCTTCACATGATGATGAGTAATCTAAATAACCTACGACGAGTACAT	67		
OY	878	ctgagctttatg	889		
Db	68	TTGAGATGATGTTG	79		
RESULT	4				
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LOCUS	AF213231				
DEFINITION	Bison bison clone 15.1.1 microsatellite BMS410-89.				
ACCESSION	AF213231				
VERSION	AF213231.1	GI:11837834			
KEYWORDS					
SOURCE					
ORGANISM					
	American bison.				
	Bison bison				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bison.				
REFERENCE					
AUTHORS	1 (bases 1 to 89)				
TITLE	Schnabel, R.D., Ward, T.J. and Derr, J.N.				
	Validation of 15 microsatellites for parentage testing in North American bison, Bison bison and domestic cattle				
	Anim. Genet. 31 (6), 360-366 (2000)				
JOURNAL	21070477				
MEDLINE	2 (bases 1 to 89)				
REFERENCE	Schnabel, R.D., Ward, T.J. and Derr, J.N.				
AUTHORS	Direct Submission				
TITLE	Submitted (07-DEC-1999) Veterinary Pathobiology, Texas A&M				
JOURNAL	University, Bldg. 1197 Rm.226, College Station, TX 77843-4467, USA				
FEATURES					
SOURCE					
	Location/Qualifiers				
	1..89				
	/organism="Bison bison"				
	/db_xref="taxon:9901"				
	/clone="15.1.1"				
	1..22				
	/note="microsatellite BMS410-89"				
	/rpt_type=tandem				
	70..89				
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primer_bind					

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Query Match		0.6%;	Score 25.8;	DB 4;
Best Local Similarity	56.5%;	Pred. No. 1.3e+05;		
Matches 48;	Conservative 0;	Mismatches 37;	Indels 0;	Gaps 0;
OY 1450	ttctgaatgtgctgctgctgagccacacgaatcctcacacctgcaaacacctaccag	1509		
Db 1	TTGGCCACATTTTACCTTCTTCATGACGACGACACACACACACACACACACACAC	60		
OY 1510	gtcattgcaaacaggcctgcttac	1534		
Db 61	GTGCTTATTAACACCACAGCTTTTC	85		
RESULT 5				
LOCUS	ROTVP7AJ	87 bp ss-RNA	Linear	VRL 23-SEP-1994
DEFINITION	Homo sapiens rotavirus 2 (strain HNI26) outer capsid protein (VP7)			
ACCESSION	M37349			
VERSION	M37349.1	GI:548266		
KEYWORDS	VP7 gene; outer capsid protein.			
SOURCE	Human rotavirus 2 (strain HNI26) RNA.			
ORGANISM	Human rotavirus 2			
REFERENCE	1 (bases 1 to 87)			
AUTHORS	Green,K.Y., Sears,J.F., Taniguchi,K., Midhun,K., Hoshino,Y., Gorziglia,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M. and Flores,J.			
TITLE	Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene			
JOURNAL	J. Virol. 62, 1819-1823 (1988)			
MEDLINE	88188272			
FEATURES				
source	Location/Qualifiers			
	1..87			
	/organism="Human rotavirus 2"			
	/strain="HNI26"			
	/db_xref="taxon:36429"			
gene	1..87			
	/gene="VP7"			
	<1..>87			
CDS	/gene="VP7"			
	/codon_start=1			
	/product="outer capsid protein"			
	/protein_id="AA47368.1"			
	/db_xref="GI:548267"			
	/translation="TEAKNEISDDEWENTKTVDNTEIVASS"			
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Best Local Similarity	59.7%;	Pred. No. 1.4e+05;		
Matches 43;	Conservative 0;	Mismatches 29;	Indels 0;	Gaps 0;
OY 818	ctgtgaagtgattcattcattgattgaattgaatgacactatgctgactaattgattgaca	877		
Db 8	CTTAAATTAAGAGATTTCATGATGATGATGGAATAATCTAATAACTACGGATGTAACACAT	67		
OY 878	ctgagtttattc 889			
Db 68	TTGAGATTGTTG 79			
RESULT 6				
LOCUS	ROTVP7AM	87 bp ss-RNA	Linear	VRL 23-SEP-1994
DEFINITION	Homo sapiens rotavirus 2 (strain C) outer capsid protein (VP7) RNA.			
ACCESSION	M37352			

VERSION	M37352.1	GI:548272
KEYWORDS	VP7 gene; outer capsid protein.	
SOURCE	Human rotavirus 2 (strain C) RNA.	
ORGANISM	Human rotavirus 2	
REFERENCE	Viruses; dsRNA viruses; Reoviridae; Rotavirus.	
AUTHORS	1 (bases 1 to 87) Green,K.Y., Sears,J.F., Taniguchi,K., Midthun,K., Hoshino,Y., Gorziglia,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M. and Flores,J.	
TITLE	Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene	
JOURNAL	J. Virol. 62, 1819-1823 (1988)	
MEDLINE	88188272	
FEATURES	Location/Qualifiers	
source	1..87	
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CDS	/strain="C"	
	/db_xref="taxon:36429"	
	1..87	
	/gene="VP7"	
	<1..>87	
	/gene="VP7"	
	/codon_start=1	
	/product="outer capsid protein"	
	/protein_id="AA07371.1"	
	/db_xref="GI:548273"	
	/translation="AEAKNEISDDEMENTKTTDVNTEIVASS"	
BASE COUNT	33 a	11 c
ORIGIN	20 g	23 t
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Best Local Similarity	59.7%;	DB 14;
Matches	43;	Conservative 0;
	Mismatches 29;	Indels 0;
	Gaps 0;	
OY	818	ctgtgaagtgatcttcagtgatgatgatgaatgaacacatagctgctgaattgagtgaca 877
Db	8	CTAAATAAGAGATTTCACAGTACATGATGGAATGGAAAAATCTAAACCTACGATGTAAACACAT 67
OY	878	ctgagtttatg 889
Db	68	TTGAGATTGTTG 79
RESULT	7	
ROTVP7AN		
LOCUS	ROTVP7AN	
DEFINITION	Homo sapiens rotavirus 2 (strain V197) outer capsid protein (VP7)	
ACCESSION	M37353	
VERSION	M37353.1	GI:548274
KEYWORDS	VP7 gene; outer capsid protein.	
SOURCE	Human rotavirus 2 (strain V197) RNA.	
ORGANISM	Human rotavirus 2	
REFERENCE	Viruses; dsRNA viruses; Reoviridae; Rotavirus.	
AUTHORS	1 (bases 1 to 87) Green,K.Y., Sears,J.F., Taniguchi,K., Midthun,K., Hoshino,Y., Gorziglia,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M. and Flores,J.	
TITLE	Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene	
JOURNAL	J. Virol. 62, 1819-1823 (1988)	
MEDLINE	88188272	
FEATURES	Location/Qualifiers	
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BASE COUNT      33 a      11 c      20 g      23 t
ORIGIN

Query Match      0.6%; Score 25.6; DB 14; Length 87;
Best Local Similarity 59.7%; Pred. No. 1.4e+05;
Matches 43; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 818 ctgtgaagtgatcttcagtgatgaatgaatgacacactaagctgaattgagtacaa 877
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Db 8 CTAAGAAAGACATTCAGATGATGAATGGAAATCTAAACTACGATGTAACACAT 67

QY 878 ctgaattatg 889
    ||| ||| |||
Db 68 TTGAGATTGTG 79

RESULT 8
AF213232      93 bp      DNA      linear      MM 09-FEB-2001
LOCUS      AF213232
DEFINITION      Bison bison clone 13.13.1 microsatellite BMS410-93.
ACCESSION      AF213232
VERSION      AF213232.1 GI:11837835
KEYWORDS
SOURCE      American bison.
ORGANISM      Bison bison.
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
TITLE      Bovidae; Bovinae; Bison.
JOURNAL      1 (bases 1 to 93)
REFERENCE      Schnabel,R.D., Ward,T.J. and Derr,J.N.
TITLE      Validation of 15 microsatellites for parentage testing in North
JOURNAL      American bison, Bison bison and domestic cattle
MEDLINE      Anim. Genet. 31 (6), 360-366 (2000)
21070477
REFERENCE      2 (bases 1 to 93)
AUTHORS      Schnabel,R.D., Ward,T.J. and Derr,J.N.
TITLE      Direct Submission
JOURNAL      Submitted (07-DEC-1999) Veterinary Pathobiology, Texas A&M
University, Bldg. 1197 Rm.226, College Station, TX 77843-4467, USA
FEATURES
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    primer_bind
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    /rpl_type="tandem"
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ORIGIN

Query Match      0.6%; Score 25.4; DB 4; Length 93;
Best Local Similarity 58.7%; Pred. No. 1.6e+05;
Matches 44; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 1460 tgcgtgctgagccacacgaatcctcacactgcgaacacactctacagtcattgcaa 1519
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Db 15 TTCTTTTATAGACGCACACACACACACACACACACACACACACACACACACACACAC 74

QY 1520 acagagctgcttac 1534
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 75 ACACCACAGCTTTTC 89

RESULT 9
AF272967/c

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LOCUS      AF272967      94 bp      DNA      linear      VRT 08-JAN-2002
DEFINITION      Mastacembelus aculeatus doublesex-like protein Dmrt2a gene, partial
ACCESSION      AF272967
VERSION      AF272967.1 GI:10567711
KEYWORDS
SOURCE      Mastacembelus aculeatus.
ORGANISM      Mastacembelus aculeatus.
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
TITLE      Acanthomorpha; Acanthopterygii; Percomorpha; Sybranchiiformes;
JOURNAL      Mastacembelidae; Mastacembelus.
1 (bases 1 to 94)
Huang,X. and Zhou,R.
J. Exp. Zool. (2002) In press
REFERENCE      2 (bases 1 to 94)
AUTHORS      Huang,X. and Zhou,R.
TITLE      Direct Submission
JOURNAL      Submitted (30-MAY-2000) Genetics, Wuhan University, LuoJia, Wuhan,
Hubel 430072, P.R. China
FEATURES
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ORIGIN

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Best Local Similarity 61.2%; Pred. No. 1.6e+05;
Matches 41; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 166 cccctgattctctctcgtgcacagatgattgactggaagtacatctgtatccaaa 225
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Db 91 CCGCTGCTCTCCACACACAGCAGCAGTTCGCGCTGCGCTCCACGCGGACGAA 32

QY 226 cttcttg 232
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 31 GCGCTTG 25

RESULT 10
I71468
LOCUS      I71468      70 bp      DNA      linear      PAT 03-APR-1998
DEFINITION      Sequence 9 from patent US 5681942.
ACCESSION      I71468
VERSION      I71468.1 GI:3007603
KEYWORDS
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 70)
AUTHORS      Buchwald,M., Strathdee,C.A., Wevrick,R. and Mathew,C.George.Porter.
TITLE      Fanconi Anemia Type C gene
JOURNAL      Patent: US 5681942-A 9/28-OCT-1997;
FEATURES
source
    1..70
    /organism="unknown"
BASE COUNT      26 a      8 c      11 g      25 t
ORIGIN

Query Match      0.6%; Score 25; DB 6; Length 70;

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QY 3449	aaatgttaaacggtctcgcagctctcttgggttaaacagggtcaatgcaggaacagcat	3508					
Db 4	AGAGAGTAAATCTTGCTGCACTTCTTGAATTAATGATTATTAAAGTGTGCTT	63					
QY 3509	accaa 3513						
Db 64	AAAAA 68						
RESULT 11	AF174509/c	97 bp	DNA	linear	VRT 20-APR-2000		
LOCUS	AF174509/c						
DEFINITION	Tormentophryne aspinia K12-93A011 cytochrome b gene, partial cds;						
ACCESSION	AF174509						
VERSION	AF174509.1						
KEYWORDS	GI:7620455						
SOURCE	Tormentophryne aspinia.						
ORGANISM	Mitochondrion Tormentophryne aspinia						
REFERENCE	1 (bases 1 to 97)						
AUTHORS	Li, W., Lathrop, A., Fu, J., Yang, D. and Murphy, R.W.						
TITLE	Phylogeny of East Asian bufonids inferred from mitochondrial DNA sequences (Anura: Amphibia)						
JOURNAL	Mol. Phylogenet. Evol. 14 (3), 423-435 (2000)						
MEDLINE	20179527						
PUBMED	10712847						
REFERENCE	2 (bases 1 to 97)						
AUTHORS	Li, W., Lathrop, A., Fu, J. and Murphy, R.W.						
TITLE	Direct Submission						
JOURNAL	Submitted (26-UTL-1999) CECB, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario M5S 2C6, Canada						
FEATURES	location/Qualifiers						
source	1..97						
	/organism="Tormentophryne aspinia"						
	/organism="mitochondrion"						
	/specimen_voucher="K12-93A011"						
	/db_xref="taxon:103606"						
	/country="China: Yunnan, Yangbi Co."						
	<1..>97						
	/product="cytochrome b"						
	<1..97						
	/codon_start=-2						
	/transl_table=-2						
	/product="cytochrome b"						
	/protein_id="AA64628.1"						
	/db_xref="GI:7620456"						
	/translation="MIGOLASVSSEFLFIITPLGLTENKLIOL"						
BASE COUNT	28 a 31 c 8 g 30 t						
ORIGIN							
Query Match	0.6%	Score 24.8	DB 5	Length 97			
Best Local Similarity	54.3%	Pred. No. 2.4e+05					
Matches 50	Conservative 0	Mismatches 42	Indels 0	Gaps 0			
QY 3908	agttcaatgtagagatgccccttattgacaatacagtcgtgtaagaagaagaagccg	3967					
Db 93	AGTTAGAGTTAGTTCTTTTCGGTGCAGTCCGGAAGGGGGCTAAATAATGATAAGATTAAAG 34						
QY 3968	ctgaagaacacgaagctcagagacacctct	3999					
Db 33	AAGTAGGAGAGGAGGCTAATTTGCCCAATTAT 2						
RESULT 12	AF174510/c	97 bp	DNA	linear	VRT 20-APR-2000		
LOCUS	AF174510/c						

[illegible]

JOURNAL	COLD Spring Harb. Symp. Quant. Biol. 43,1287-1292 (1979)
MEDLINE	80023367
FEATURES	Location/Qualifiers 1..90 /organism="synthetic construct" /db_xref="taxon:32630"
BASE COUNT	28 a 9 c 8 g 45 t
ORIGIN	
Query Match	0.68; Score 24.6; DB 12; Length 90;
Best Local Similarity	55.28; Pred. No. 2.7e+05;
Matches	48; Conservative 0; Mismatches 39; Indels 0; Gaps 0;
QY	3089 ttacagcacacatgaataggccctctgtgagattgaaattcttgcacaagacac 3148
Db	90 TTGAAACTTTGAAATAATTAAACTTTGAAACCTTTGAAATAATCAAACTTGAAACGT 31
OY	3149 ggtgaccttaaaaaatttaattcca 3175
Db	30 TGAATACTTTGAAATAATTAACTTTGA 4
RESULT	14
AF326227	70 bp DNA linear PLN 02-MAR-2001
LOCUS	AF326227
DEFINITION	Arabidopsis thaliana small nucleolar RNA R83, complete sequence.
ACCESSION	AF326227
VERSION	AF326227.1 GI:13183695
KEYWORDS	
SOURCE	thale cress.
ORGANISM	Arabidopsis thaliana
	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
REFERENCE	1 (bases 1 to 70) Barneche,F., Gaspin,C., Guyot,R. and Echeverria,M. Extensive characterization of methylation guide small nucleolar RNAs in Arabidopsis thaliana
AUTHORS	Unpublished
TITLE	2 (bases 1 to 70) Barneche,F., Gaspin,C., Guyot,R. and Echeverria,M. Direct Submission
JOURNAL	Submitted (06-DEC-2000) Laboratoire Genome et Developpement des Plantes, Universite de Perpignan, DMK CNRS 5096, Avenue de Villeneuve, Perpignan, Pyrenees Orientales 66860, France
FEATURES	location/Qualifiers 1..70 /organism="Arabidopsis thaliana" /db_xref="taxon:3702" /dev_stage="seedling" /note="ecotype: Columbia 0"
SOURCE	1..70 /note="Atsnor83" /product="small nucleolar RNA R83" /evidence="experimental"
BASE COUNT	19 a 9 c 19 g 23 t
ORIGIN	
Query Match	0.68; Score 24.4; DB 8; Length 70;
Best Local Similarity	63.88; Pred. No. 2.9e+05;
Matches	37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
QY	3764 aagaatgatgacatttgcagaatcagtgctgcagaagacacaaagccttgaanaa 3821
Db	5 ATGATGATGGGGATTTTTGACATTTACGATGAGAGATGTACAGCTCCCTCTTGATTAA 62
RESULT	15
LOCUS	S45981 86 bp RNA linear BCT 07-MAY-1993
DEFINITION	Selenoprotein A [Clostridium purinolyticum, Genomic RNA, 86 nt].

ACCESSION	SA45981
VERSION	SA45981.1
KEYWORDS	GI:1679975
SOURCE	
ORGANISM	Clostridium purinilyticum. Clostridium purinilyticum. Bacteria; Firmicutes; Bacillus/Clostridium group; Clostridiaceae; Clostridium. 1 (bases 1 to 86)
REFERENCE	Garcia,G.E. and Stadlman,T.C. Selenoprotein a component of the glycine reductase complex from Clostridium purinilyticum: nucleotide sequence of the gene shows that selenocysteine is encoded by UGA
AUTHORS	J. Bacteriol. 173 (15), 4908 (1991)
TITLE	91310603
JOURNAL	GenBank staff at the National Library of Medicine created this entry [NCBI gisbss 45981] from the original journal article.
MEDLINE	This sequence comes from 5a. On Nov 21, 1996 this sequence version replaced gi:1619721. **ERRATUM** Vol. 173, no. 6, p. 2097.
REMARK	Location/Qualifiers
FEATURES	1..86 /organism="Clostridium purinilyticum" /db_xref="taxon:1503"
source	1..86 /gene="Selenoprotein A"
gene	1..86
BASE COUNT	27 a 14 c 24 g 21 t
ORIGIN	
Query Match	0.6%; Score 24.4; DB 1; Length 86;
Best Local Similarity	56.1%; Pred. No.3e+05;
Matches	46; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
QY	1130 aatgatatagcacaaatgatgcattagagcaccacacacattcttgtagagttaaag 1189 11 1 1 1 11
Db	3 AATGTTTGTCTGGAAGCTACAGCAGAGCTATGATCTGAGATCCACCAAAAAGTTAAAG 62 11
QY	1190 cgcgtccatactggtacacagc 1211 11
Db	63 ATGTGCTGAGTCAATCGAGC 84

Search completed: August 13, 2002, 22:40:53
Job time: 11355 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 20:24:26 ; Search time 416.67 Seconds
(without alignments)
17034.402 Million cell updates/sec

Title: US-09-301-380-1
Perfect score: 4134
Sequence: 1 cttcaaaagttcccgcatga.....tgggtagagagatatatttc 4134

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 1736436 segs, 858457221 residues
Total number of hits satisfying chosen parameters: 1183566

Minimum DB seq length: 15
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N.Geneseq.032802:*

- 1: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*
- 2: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
- 3: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
- 4: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*
- 5: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
- 6: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*
- 7: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*
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- 11: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT:*
- 12: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*
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- 14: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:*
- 15: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:*
- 16: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*
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- 20: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
- 21: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
- 22: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
- 23: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
- 24: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	91	2.2	91	22	AAK51341
C 2	91	2.2	91	22	AA157408
C 3	50	1.2	51	22	AA126826
C 4	48.8	1.2	60	21	AA238172
C 5	38	0.9	38	21	AA238153
C 6	28.8	0.7	97	21	AA238153
C 7	28	0.7	29	19	AAV40897
C 8	28	0.7	29	21	AA64165
C 9	28	0.7	29	21	AA698540

C 10	26.4	0.6	50	21	AA238180	Human NR-CAM gene
C 11	26	0.6	82	17	AA244495	Murine p57KIP2 gen
C 12	26	0.6	96	22	ABA36168	Probe #14634 for g
C 13	26	0.6	96	22	AA249423	Probe #18109 used
C 14	25.8	0.6	71	13	AA024813	Universal promoter
C 15	25.8	0.6	73	13	AA024815	Universal promoter
C 16	25.4	0.6	88	21	AAA28515	Primer PRIL 5' for
C 17	25.2	0.6	72	22	AA61467	MBP/BMP fusion con
C 18	25	0.6	39	21	AA238169	Antisense NR-CAM 1
C 19	25	0.6	65	13	AA024812	Universal promoter
C 20	25	0.6	67	13	AA024814	Universal promoter
C 21	25	0.6	70	14	AA051433	Human FACC intron
C 22	25	0.6	93	16	AA228332	Human gene signatu
C 23	24.8	0.6	86	16	AA219434	Human gene signatu
C 24	24.8	0.6	93	22	ABA50916	Human breast cell
C 25	24.8	0.6	93	22	ABA68894	Human foetal liver
C 26	24.8	0.6	93	22	ABA35845	Probe #14311 for g
C 27	24.8	0.6	93	22	AAK17226	Human brain expres
C 28	24.8	0.6	93	22	AAK43012	Human bone marrow
C 29	24.8	0.6	93	22	AA123781	Probe #13714 for g
C 30	24.8	0.6	93	22	AA149091	Probe #17777 used
C 31	24.8	0.6	93	22	AA109387	Probe #3778 used t
C 32	24.6	0.6	50	21	AA252309	Human secreted pro
C 33	24.4	0.6	38	21	AA238156	Human NR-CAM gene
C 34	24.4	0.6	38	21	AA238170	Antisense NR-CAM 2
C 35	24.2	0.6	84	18	AA71750	Fibroblast succin
C 36	24.2	0.6	95	22	AA504616	Gene expression pr
C 37	24	0.6	24	21	AA238159	Human NR-CAM gene
C 38	24	0.6	38	21	AA238157	Human NR-CAM gene
C 39	24	0.6	38	21	AA238171	Antisense NR-CAM 2
C 40	24	0.6	92	21	AA27898	CDNA encoding huma
C 41	24	0.6	92	22	AA128636	Colon tumour relat
C 42	24	0.6	100	24	AA598937	Human prostate can
C 43	23.8	0.6	37	21	AA238168	Antisense NR-CAM 1
C 44	23.8	0.6	48	21	AA238179	Human NR-CAM gene
C 45	23.8	0.6	87	19	AA297234	Trimmed enzyme sig

ALIGNMENTS

RESULT 1
AAK51341/C
AAK51341 standard; DNA; 91 BP.

AAK51341:
(first entry)

Human bone marrow expressed single exon probe SEQ ID NO: 25898.

Human: bone marrow expressed exon; gene expression analysis; probe;
microarray; cancer; leukaemia; lymphoma; myeloma; ss.

Homo sapiens.

WO200157276-A2.

09-AUG-2001.

30-JAN-2001; 2001WO-US00668.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488900/53.
 XX Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human bone marrow -
 XX
 PS Example 4; SEQ ID NO: 25898; 658bp + Sequence Listing; English.
 XX
 CC The present invention provides a number of single exon nucleic acid
 CC probes which are derived from genomic sequences expressed in the human
 CC bone marrow. They can be used to measure gene expression in bone marrow
 CC samples, which may enable the improved diagnosis and treatment of cancers
 CC such as lymphoma, leukaemia and myeloma. The present sequence is one of
 CC the probes of the invention.
 XX
 SQ Sequence 91 BP; 24 A; 23 C; 23 G; 21 T; 0 other;

Query Match 2.2%; Score 91; DB 22; Length 91;
 Best Local Similarity 100.0%; Pred. No. 1.5e-16;
 Matches 91; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 130 atgcccgaagaaagcgtctatctgcgagcagatgcccctgattctctctgtgccaag 189
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 91 ATGCCGAAAAAGAGCGCTTATCTGCGGGCAGAGTGCCCTGATTCTCTCTGTCGCG 32
 OY 190 atgattagtgcactggaagtaacctctgattc 220
 ||||||||||||||||||||||||||||||||||||
 DB 31 ATGATTAGTGCACTGGAGTACCTCTTGATC 1

RESULT 2
 AAI57408/C
 ID AAI57408 standard; DNA; 91 BP.
 XX
 AC AAI57408;
 XX
 DT 17-OCT-2001 (first entry)
 XX

DE Probe #26094 used to measure gene expression in human placenta sample.

KM Probe; microarray; human; placenta; antenatal diagnosis;
 KW genetic disorder; ss.
 XX

OS Homo sapiens.

PN WO200157272-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00663.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 XX
 XX Claim 25; SEQ ID NO 26094; 654bp; English.
 CC The present invention relates to single exon nucleic acid probes (SENP).
 CC The present sequence is one such probe. The probes are useful for

CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 XX

SQ Sequence 91 BP; 24 A; 23 C; 23 G; 21 T; 0 other;

Query Match 2.2%; Score 91; DB 22; Length 91;
 Best Local Similarity 100.0%; Pred. No. 1.5e-16;
 Matches 91; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 130 atgcccgaagaaagcgtctatctgcgagcagatgcccctgattctctctgtgccaag 189
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 91 ATGCCGAAAAAGAGCGCTTATCTGCGGGCAGAGTGCCCTGATTCTCTCTGTCGCG 32
 OY 190 atgattagtgcactggaagtaacctctgattc 220
 ||||||||||||||||||||||||||||||||||||
 DB 31 ATGATTAGTGCACTGGAGTACCTCTTGATC 1

RESULT 3
 AAL26826
 ID AAL26826 standard; DNA; 51 BP.
 XX
 AC AAL26826;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE Human SNP oligonucleotide #34.
 XX

KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
 KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
 KW amyloid protein; angiopoietin; apoptosis related protein; cadherin;
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KW complement related protein; cytochrome; kinesin; cytokine; interferon;
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KW multifactorial disease; autoimmune disease; infection;
 KW nervous system disease; ss.
 XX

OS Homo sapiens.

PN WO200147944-A2.

PD 05-JUL-2001.

PF 28-DEC-2000; 2000WO-US35498.

PR 28-DEC-1999; 99US-0173419.

PR 27-DEC-2000; 2000US-0173419.

PA (CURA-) CURAGEN CORP.

PI Shinkets RA, Leach M;

XX WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 XX
 PS Claim 1; Page 1409; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiopoietin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

XX Sequence 51 BP; 14 A; 13 C; 11 G; 12 T; 1 other;

Query Match 1.2%; Score 50; DB 22; Length 51;
Best Local Similarity 98.0%; Pred. No. 0.00014;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1177 gttagagttaaagcggctccatctgacacagcccccctcaaatctgtg 1227
|||||
Db 1 gttagagttaaagcggctccatctgacacagcccccctcaaatctgtg 51

RESULT 4
AAZ38172
ID AAZ38172 standard; DNA; 60 BP.

XX AAZ38172;

XX 14-FEB-2000 (first entry)

XX Human Nr-CAM gene fragment.

XX Nr-CAM, neuron-glia-related cell adhesion molecule; cell proliferation;
XX tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
XX degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
XX systemic lupus erythematosus; demyelinating disease; growth; human; ss.

XX Homo sapiens.

XX WO9955380-A1.

XX 04-NOV-1999.

XX 27-APR-1999; 99WO-US09039.

XX 27-APR-1998; 98US-0083152.

XX 14-DEC-1998; 98US-0112098.

XX (PACI-) PACIFIC NORTHWEST CANCER FOUND.

XX Murphy GP, Boynton AL, Sehgal A;

XX WPI; 2000-023268/02.

XX Use of neuron-glia-related cell adhesion molecule for developing agents
XX for the diagnosis and treatment of e.g. cancers, hyperproliferative
XX disorders, growth deficiencies, degenerative disorders, trauma or
XX wounds

XX Examples; Page 123; 183pp; English.

XX The invention relates to the use of neuron-glia-related cell adhesion
XX molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
XX preventing disorders involving cell proliferation. An antisense nucleic
XX acid complementary to at least a portion of an RNA transcript of a
XX Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
XX for the treatment of tumorigenesis. Agents which inhibit and promote
XX Nr-CAM function can be used for the treatment of various diseases and
XX disorders (see AAZ38152 for a detailed description). The products can
XX also be used for detection, diagnosis and production of animal models.
XX The present sequence represents a human Nr-CAM gene fragment against
XX which phosphothioate oligonucleotides are designed.

XX Sequence 60 BP; 22 A; 9 C; 16 G; 13 T; 0 other;

Query Match 1.2%; Score 48.8; DB 21; Length 60;

Best Local Similarity 88.3%; Pred. No. 0.00034;
Matches 53; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 99 accagagttaaagcgttaatcagcttaataatgcggaataaagcgttatctgagg 158
|||||
Db 1 agagagttaaagcgttaatcagcttaataatgcggaataaagcgttatctgagg 60

RESULT 5

AAZ38153
ID AAZ38153 standard; DNA; 38 BP.

XX AAZ38153;

XX 14-FEB-2000 (first entry)

XX Human Nr-CAM gene fragment (basepairs 4097-4134).

XX Nr-CAM, neuron-glia-related cell adhesion molecule; cell proliferation;
XX tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
XX degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
XX systemic lupus erythematosus; demyelinating disease; growth; human; ss.

XX Homo sapiens.

XX WO9955380-A1.

XX 04-NOV-1999.

XX 27-APR-1999; 99WO-US09039.

XX 27-APR-1998; 98US-0083152.

XX 14-DEC-1998; 98US-0112098.

XX (PACI-) PACIFIC NORTHWEST CANCER FOUND.

XX Murphy GP, Boynton AL, Sehgal A;

XX WPI; 2000-023268/02.

XX Use of neuron-glia-related cell adhesion molecule for developing agents
XX for the diagnosis and treatment of e.g. cancers, hyperproliferative
XX disorders, growth deficiencies, degenerative disorders, trauma or
XX wounds

XX Disclosure; Fig 2C; 183pp; English.

XX The invention relates to the use of neuron-glia-related cell adhesion
XX molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
XX preventing disorders involving cell proliferation. An antisense nucleic
XX acid complementary to at least a portion of an RNA transcript of a
XX Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
XX for the treatment of tumorigenesis. Agents which inhibit Nr-CAM function
XX can be used to treat or prevent malignancies, e.g. brain cancer,
XX leukemia, B cell lymphoma, premalignant conditions, benign tumors,
XX hyperproliferative disorders or benign dysproliferative disorders. Such
XX treatment is especially useful for treating glioblastoma, glioma,
XX meningioma, astrocytoma, medulloblastoma, neuroectodermal cancer and
XX neuroblastoma, especially glioblastoma multiforme. Agents which promote
XX Nr-CAM function may also be used to treat or prevent degenerative
XX disorders, growth deficiencies, hypoproliferative disorders, physical
XX trauma, lesions or wounds. In particular, they can be used for treating
XX e.g. traumatic, ischemic, malignant and degenerative lesions and
XX alcoholic cerebellar degeneration. Also described is the treatment of
XX lesions associated with systemic diseases e.g. diabetes or systemic lupus
XX erythematosus, lesions caused by toxic substances e.g. alcohol, lead or
XX other toxins; and demyelinated lesions of the nervous system, in which a
XX portion of the nervous system is destroyed or injured by a demyelinating
XX disease e.g. multiple sclerosis, HIV-associated myelopathy, transverse
XX myelopathy of various etiologies, progressive multifocal
XX leukoencephalopathy or central pontine myelinolysis; or lesions of the
XX central or peripheral nervous systems. In addition, agents which promote
XX Nr-CAM function can be promoted to increase growth of animals (e.g. cows,

CC horses, pigs, goats, deer, chickens) and plants (particularly edible
CC plants, e.g. tomatoes, melons, lettuce, carrots, potatoes, and other
CC vegetables), particularly those that are food or material sources. They
CC can also be used in vitro e.g. to expand cells e.g. stem cells,
CC progenitor cells, muscle cells, fibroblasts, or liver cells to grow
CC cells/tissue in vitro prior to administration to a patient. The products
CC can also be used for detection, diagnosis and production of animal
CC models. The present sequence represents a previously cloned human Nr-CAM
CC gene (accn no: AA055258) fragment.

CC Sequence 38 BP; 12 A; 5 C; 7 G; 14 T; 0 other;

Query Match 0.9%; Score 38; DB 21; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4097 tctcattacatgaacatattggttagagagatatttc 4134
DB 1 tctcattacatgaacatattggttagagagatatttc 38

RESULT 6

AACT14618
ID AACT14618 standard; cDNA; 97 BP.

ACACT14618;

06-OCT-2000 (first entry)

Human secreted protein 5' EST, SEQ ID NO: 18693.

Human: 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
gene therapy; chromosome mapping; ss.

Homo sapiens.

EP1033401-A2.

06-SEP-2000.

21-FEB-2000; 2000EP-0200610.

26-FEB-1999; 99US-0122487.

(GEST) GENSET.

Dumas Milne Edwards J, Duclert A, Giordano J;

WPI; 2000-500381/45.

New nucleic acid that is a 5' expressed sequence tag (5' EST) for
obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
diagnostic, forensic, gene therapy and chromosome mapping procedures -
Claim 1; SEQ ID 18693; 71bp + CD-ROM; English.

The present sequence is one of a large number of 5' ESTs derived from
mRNAs encoding secreted proteins. No ORF has yet been conclusively
identified within the present sequence. The 5' ESTs were prepared from
total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
sequences usually correspond mainly to the 3' untranslated region (UTR)
of the mRNA because they are often obtained from oligo-dT primed cDNA
libraries. Such ESTs are not well suited for isolating cDNA sequences
derived from the 5' ends of mRNAs and even in those cases where longer
cDNA sequences have been obtained, the full 5' UTR is rarely included.
5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
in diagnostic, forensic, gene therapy and chromosome mapping procedures.
They are used to obtain upstream regulatory sequences and to design
expression and secretion vectors.

Sequence 97 BP; 43 A; 8 C; 28 G; 14 T; 4 other;

Query Match 0.7%; Score 28.8; DB 21; Length 97;
Best Local Similarity 60.0%; Pred. No. 3.8e+02;
Matches 42; Conservative 3; Mismatches 25; Indels 0; Gaps 0;

QY 3853 aaaaagaagatagtgagacacgcttagtgcattgaggaagggttaatgacagtc 3912
DB 21 aatgaagaagaacaaacacacacgcttgatgatgatgaasmagaaamagatcttgc 80

QY 3913 aatgagatg 3922

DB 81 gatgagatg 90

RESULT 7

AAV40897/C
ID AAV40897 standard; DNA; 29 BP.

AAV40897.

25-SEP-1998 (first entry)

Probe for coding sequence of clone CO722.1.

Human: nutritional supplement; cell proliferation/differentiation;
cytokine; immunostimulant; immunosuppressant; hematopoiesis regulator;
receptor/ligand activity; cadherin/tumour invasion suppressor; probe;
anti-inflammatory; tumour inhibitor; clone CO722.1; ss.

Synthetic.

Homo sapiens.

W09824905-A2.

11-JUN-1998.

05-DEC-1997; 97WO-US22211.

03-DEC-1997; 97US-0984516.

06-DEC-1996; 96US-0762216.

(GEMV) GENETICS INST INC.

Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D;
Racie LA, Spaulding V, Treacy M;

WPI; 1998-333324/29.

New isolated polynucleotides encoding secreted polypeptides -
Isolated from a human foetal kidney cDNA library, a human adult
blood cDNA library or a human adult brain cDNA library
Disclosure; Page 93; 109pp; English.

This sequence represents a probe for the coding sequence of clone
CO722.1 of the invention. The clone was isolated from a human adult
brain cDNA library. The DNAs and proteins can be used as nutritional
sources or supplements, or may exhibit cytokine and cell
proliferation/differentiation activity, immune stimulating or suppressing
activity, hematopoiesis regulation activity, receptor/ligand activity,
anti-inflammatory activity, cadherin/tumour invasion suppressor activity,
tumour inhibition activity or other activities.

Sequence 29 BP; 7 A; 9 C; 4 G; 8 T; 1 other;

Query Match 0.7%; Score 28; DB 19; Length 29;
Best Local Similarity 96.6%; Pred. No. 3e+02;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 75 aaggaattcagtggtgtgagcttcacagcag 103
|||||

Db 29 AAGGAATTCAGTGTGTGAGTCACGCG 1

RESULT 8

ID AAA64165/C

AC AAA64165;

XX 20-DEC-2000 (first entry)

XX Probe used to isolate cDNA encoding secreted protein clone CO722.1.

XX Human; secreted protein; immune deficiency; infectious disease;
 KW tissue growth; wound healing; tissue repair; burn; incision; ulcer;
 KW osteoporosis; osteoarthritis; periodontal disease; tooth repair;
 KW nervous system disorder; angiogenic activity; fibrosis; fertility;
 KW reperfusion injury; systemic cytokine damage; contraceptive;
 KW thrombolytic; coagulation disorder; anti-inflammatory activity;
 KW inflammatory condition; probe; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX modified_base 2
 XX /*tag= a
 XX /note= "biotinylated phosphoramidite residue"

XX WO2000592-A1.

XX 31-AUG-2000.

XX 24-FEB-2000; 2000WO-US04731.

XX 24-FEB-1999; 99US-0256938.

XX (GENY) GENETICS INST INC.

XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;

XX Merberg D, Treacy M, Bowman MR, Spaulding V;

XX WPI: 2000-55839/51.

XX New secreted polypeptides and nucleic acids encoding them used for
 PT treating various anemias, bone, cartilage, tendon, ligament and/or
 PT nerve tissue or regeneration, contraceptives, and nutritional
 PT supplements

XX Disclosure; Page 115; 119pp; English.

XX The present sequence represents a probe for cDNA encoding a human
 CC secreted protein. The polypeptides may be used in the treatment of
 CC various immune deficiencies and disorders, and to treat infectious
 CC diseases caused by viral, bacterial, fungal or other infections. The
 CC polypeptides are also used in compositions for bone, cartilage, tendon,
 CC ligament and/or nerve tissue growth or regeneration, for wound healing
 CC and tissue repair and replacement, and in the treatment of burns,
 CC incisions and ulcers. The protein is used in the treatment of
 CC osteoporosis or osteoarthritis, periodontal disease and other tooth
 CC repair processes, and nervous system disorders. They also exhibit
 CC angiogenic activity and protect, regenerate and treat lung or liver
 CC fibrosis, reperfusion injury in various tissues, and conditions
 CC resulting from systemic cytokine damage. They promote or inhibit tissue
 CC differentiation and are used as contraceptive and to enhance fertility.
 CC They also have a hemostatic or thrombolytic activity and can be used
 CC to treat various coagulation disorders. They also have an
 CC anti-inflammatory activity and can be used to treat inflammatory
 CC conditions.

XX Sequence 29 BP; 7 A; 9 C; 4 G; 8 T; 1 other;

Query Match 0.7%; Score 28; DB 21; Length 29;

Best Local Similarity 96.6%; Pred. No. 3e+02;
 Matches 28; Conservative 0; Mismatches 1; Indels 0; Caps 0;

Oy 75 aaggaatcagtggtgagtcacgacg 103

Db 29 AAGGAATTCAGTGTGTGAGTCACGCG 1

RESULT 9

ID AAF98540/C

AC AAF98540;

XX 07-JUN-2001 (first entry)

XX Human cDNA clone CO722.1 specific probe SEQ ID 250.

XX Human; secreted protein; nutrient; cytokine modulator; proliferation;
 KW differentiation; immune system modulator; tissue growth; chemotactic;
 KW haemostatic; thrombolytic; anti-inflammatory; tumour inhibition; ss;
 KW haematopoiesis; probe.

XX Homo sapiens.

XX WO200119988-A1.

XX 22-MAR-2001.

XX 14-SEP-2000; 2000WO-US25135.

XX 17-SEP-1999; 99US-0398829.

XX (GENY) GENETICS INST INC.

XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;

XX Merberg D, Treacy M, Bowman MR, Spaulding V, Agostino MJ;

XX WPI: 2001-244801/25.

XX Isolated nucleic acids encoding polypeptides, useful for modulating
 PT e.g. cytokine and cell proliferation/differentiation activity, the
 PT immune system and hematopoiesis regulating activity

XX Disclosure; Page 540; 557pp; English.

XX Human cDNA clones represented in AAF98374 - AAF98489 encode secreted
 CC proteins AAB90667 - AAB90750. The cDNA clones are isolated from various
 CC tissue types, and may be used in the prevention, treatment and diagnosis
 CC of diseases associated with inappropriate protein expression. The
 CC polypeptides and nucleic acids may be used as nutrients or to modulate
 CC cytokine and cell proliferation/differentiation activity and may also be
 CC involved in modulation of the immune system. The cDNA sequences,
 CC proteins, their agonists and/or antagonists exhibit haematopoiesis
 CC regulating activity; tissue growth activity; activin/inhibin activity;
 CC chemotactic/chemokine activity; haemostatic and thrombolytic
 CC activity; receptor/ligand activity; anti-inflammatory activity;
 CC haematopoiesis activity; cadherin/tumour suppressor activity; and/or
 CC tumour inhibition activity. Included in the invention are probes
 CC represented in AAF98490 - AAF98572 which are specific for the cDNA clones
 CC encoding the secreted proteins.

XX Sequence 29 BP; 7 A; 9 C; 4 G; 8 T; 1 other;

Query Match 0.7%; Score 28; DB 22; Length 29;
 Best Local Similarity 96.6%; Pred. No. 3e+02;
 Matches 28; Conservative 0; Mismatches 1; Indels 0; Caps 0;

Oy 75 aaggaatcagtggtgagtcacgacg 103

Db 29 AAGGAATTCAGTGTGTGAGTCACGCG 1

AAZ38180/C	RESULT 10
AAZ38180 standard; DNA; 50 BP.	ID AAZ38180 standard; DNA; 50 BP.
XX	AC AAZ38180;
XX	D7 14-FEB-2000 (first entry)
XX	DE Human Nr-CAM gene specific primer BR307.
KW	Nr-CAM; neuron-glia-related cell adhesion molecule; cell proliferation;
KM	tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
KW	degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
SS	systemic lupus erythematosus; demyelinating disease; PCR primer; ss.
OS	Synthetic.
OS	Homo sapiens.
PN	WO955380-A1.
PD	04-NOV-1999.
PF	27-APR-1999; 99WO-US09039.
PR	27-APR-1998; 98US-0083152.
PR	14-DEC-1998; 98US-O112098.
PA	(PACI-) PACIFIC NORTHWEST CANCER FOUND.
PI	Murphy GP, Boynton AL, Sehgal A;
DR	WPI; 2000-023268/02.
PT	Use of neuron-glia-related cell adhesion molecule for developing agents
PT	for the diagnosis and treatment of e.g. cancers, hyperproliferative
PT	wounds - disorders, growth deficiencies, degenerative disorders, trauma or
PS	Examples; Page 124; 183pp; English.
CC	The invention relates to the use of neuron-glia-related cell adhesion
CC	molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
CC	preventing disorders involving cell proliferation. An antisense nucleic
CC	acid complementary to at least a portion of an RNA transcript of a
CC	Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
CC	for the treatment of tumorigenesis. Agents which inhibit or promote
CC	disorders (see AAZ38152 for a detailed description). The products can
CC	also be used for detection, diagnosis and production of animal models.
CC	Sequences AAZ38179-80 represent primers specific for the human Nr-CAM
XX	gene.
SQ	Sequence 50 BP; 15 A; 11 C; 11 G; 13 T; 0 other;
OY	Query Match 0.6%; Score 26.4; DB 21; Length 50;
DB	Best Local Ssimilarity 83.3%; Pred. No. 1.3e+03;
Matches 30; Conservative 0; Mismatches 6; Indels 0; Gaps 0	
1399 gatatcagtcgaatgcctcatgatgtgatat 1434	
50 GTATGGGATCCCAATGCCCTCATGTAATGTGATAT 15	
RESULT 11	
AAZ44495/C	AAZ44495 standard; DNA; 82 BP.
XX	AAT44495;
XX	AS AAT44495;
XT	22-FEB-1997 (first entry)
XX	

Accession	Gene	Protein	Function	Location/Qualifiers
DE	murine p57KIP2 gene	translation initiation region.		
XX				
KW	Cyclin-dependent kinase inhibitor; CDK; CDI; p57KIP2; cell cycle;			
KW	cancer; hyperplasia; ulcer; hyperproliferation; hypoproliferation;			
KW	diagnosis; gene therapy; ss.			
XX				
OS	Mus sp.			
XX				
FH	Key			Location/Qualifiers
FT	exon			1..15
FT				/*tag= a
FT				/note= "3' end of exon sequence"
FT	intron			16..28
FT				/*tag= b
FT				/note= "base n at position 22 denotes an approx. 200 bp intronic sequence not provided in Fig 4"
FT	exon			29..82
FT				/*tag= c
FT				/codon_start= 39
FT				/note= "there is an alternative codon start site at position 78 for use with B and B' splicing events"
FT	misc_feature			29
FT				/*tag= d
FT				/label= A
FT	misc_feature			67
FT				/note= "p57 acceptor site A"
FT				/*tag= e
FT				/label= B
FT	misc_feature			70
FT				/*tag= f
FT				/label= B'
FT				/note= "alternative acceptor site B'"
XX				
PN	W09631534-A1.			
XX				
PD	10-OCT-1996.			
XX				
XX	03-APR-1996;	96WO-US04563.		
XX				
PR	03-APR-1995;	95US-0415655.		
XX				
PA	(SLOC) SLOCAN KETTERING INST CANCER RES.			
XX				
PI	Lee M, Massague J;			
XX				
DR	WPI; 1996-464971/46.			
DR	P-PSDB; AAM01438.			
XX				
PT	Mammalian p57-KIP2 and related DNA - used to develop prods. useful for diagnosis and treatment of hyper- and hypo-proliferative disorders			
PT				
XX				
PS	Disclosure; Fig 4; 98pp; English.			
XX				
CC	3 Distinct cDNA clones (AA744496-98) are derived from genomic DNA (AA744495) in the translation start region of the murine gene (see also AA744494) coding for cyclin-dependent kinase inhibitor p57KIP2 (AAM01437). These result from splicing at position A, leading to the full-length (348-amino acid) protein having the N-terminal sequence shown in AAM01438, or alternative splicing at positions B or B', resulting in a 335-amino acid product, designated p57KIP2B. The intron sequence in the genomic DNA was identified by PCR analysis (see also AA744500-01).			
CC				
XX				
SO	Sequence 82 BP; 21 A; 27 C; 21 G; 12 T; 1 other;			
Query Match	0.6%; Score 26; DB 17; Length 82;			
Best Local Similarity	58.7%; Pred. No. 2.3e+03;			
Matches 44;	Conservative 0; Mismatches 31; Indels 0; Gaps 0;			

OY 1840 tccctcaactgctcctgtgctgaagacaacagggaacctgcgccatgtagtaagaagtcaact 1899
|||||
DB 81 TCCATCGCTGTTCGCTGCCGGAGGACACTGCACATGCCCATATGCTCAAGGCTGTGCN 22
OY 1900 gtgcacaagcatcat 1914
|||
Db 21 GCGTACTTGCTGAT 7

RESULT 12
ABA36168/c
ID ABA36168 standard; DNA; 96 BP.
XX ABA36168;
AC
XX
DT 23-JAN-2002 (first entry)
XX
DE Probe #14634 for gene expression analysis in human heart cell sample.
XX
KW Human; gene expression; heart; microarray; vascular system; probe;
RW cardiovascular disease; hypertension; cardiac arrhythmia;
XX congenital heart disease; ss.
OS Homo sapiens.
XX
PN W0200157274-A2.
PD
XX
PD 09-AUG-2001.
XX
PE 30-JAN-2001; 2001WO-US00666.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI: 2001-488899/53.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT hearts -
PS
PS Claim 4; SEQ ID No 14634; 530bp; English.

CC The present invention relates to single exon nucleic acid probes for
CC measuring human gene expression in a sample derived from human heart. The
CC present sequence is one such probe. The probes may be used for
CC predicting, measuring and displaying gene expression in samples derived
CC from the human heart via microarrays. By measuring gene expression, the
CC probes are useful for predicting, diagnosing, grading, staging,
CC monitoring and prognosting diseases of the human heart and vascular system
CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
CC congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 96 BP; 24 A; 21 C; 31 G; 20 T; 0 other;

Query Match 0.6%; Score 26; DB 22; Length 96;
Best Local Similarity 65.5%; Pred. No. 2.6e+03;
Matches 38; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

OY 1541 gtggcttcttggtgtctctctcccaaccatcgatgtttaaggaagcataaggaag 1598
|||||

DB	79	GTTCTGCTTGGTTCCTCTCGCCACATCTGTAGGGGTAATAAATGAGCCCAAGAAG	22
<hr/>			
RESULT	13		
ID	AAI49423/C		
XX	AAI49423 standard; DNA; 96 BP.		
AC	AAI49423;		
DT	17-OCT-2001 (first entry)		
DE	Probe #18109 used to measure gene expression in human placenta sample.		
XX			
KM	Probe; microarray; human; placenta; antenatal diagnosis;		
XX	genetic disorder; ss.		
OS	Homo sapiens.		
PX	WO200157272-A2.		
PD	09-AUG-2001.		
PF	30-JAN-2001; 2001WO-US000663.		
PR	04-FEB-2000; 2000US-0180312.		
PR	26-MAY-2000; 2000US-0207456.		
PR	30-JUN-2000; 2000US-0608408.		
PR	03-AUG-2000; 2000US-0632366.		
PR	21-SEP-2000; 2000US-0234687.		
PR	27-SEP-2000; 2000US-0236359.		
PR	04-OCT-2000; 2000GB-0024263.		
PA	(MOLE-) MOLECULAR DYNAMICS INC.		
PI	Penn SG, Hanzel DK, Chen W, Rank DR;		
DR	WPI; 2001-488897/53.		
PT	Human genome-derived single exon nucleic acid probes useful for		
PT	analyzing gene expression in human placenta -		
PS	Claim 25; SEQ ID No 18109; 654bp; English.		
CC	The present invention relates to single exon nucleic acid probes (SENPs).		
CC	The present sequence is one such probe. The probes are useful for		
CC	producing a microarray for predicting, measuring and displaying gene		
CC	expression in samples derived from human placenta. The probes are useful		
CC	for antenatal diagnosis of human genetic disorders.		
SQ	Sequence 96 BP; 24 A; 21 C; 31 G; 20 T; 0 other;		
<hr/>			
Query Match	0.6%; Score 26; DB 22; Length 96;		
Best Local Similarity	65.5%; Pred. No. 2.6e+03;		
Matches 38; Conservative	0; Mismatches 20; Indels 0; Gaps 0;		
OY	1541 gtcctctcttgggtcctcccaaccatcgagtgtttaaggagctaagggaag 1598		
Db	79 GTTCTGCTTGGTTCCTCTCGCCACATCTGTAGGGGTAATAAATGAGCCCAAGAAG 22		
<hr/>			
RESULT	14		
ID	AAO24813		
XX	AAO24813 standard; DNA; 71 BP.		
AC	AAO24813;		
DT	19-NOV-1992 (first entry)		
DE	Universal promoter-2.		
KM	UP; untranslated leader sequence; E-PCR; T7 RNA polymerase; SP6;		
T3; T4; qhl; alfalfa mosaic virus; ds.			

```

XX OS Synthetic.
XX XX
XX Key Location/Qualifiers
XX FH 10..26
XX FT promoter /tag= a
XX FT /label= T7_promoter
XX FT 27..64
XX FT 5'UTR /tag= b
XX FT /label= UTL_from_AMV
XX PN
XX PN WO9207949-A.
XX PD 14-MAY-1992.
XX PF 05-NOV-1991; 91WO-US08291.
XX PR 05-NOV-1990; 90US-0609318.
XX PA (USSA ) US SEC OF ARMY.
XX PI Kaln KC, Lanar DE;
XX PI WPI: 1992-183684/22.
XX DR
XX XX Protein in vitro prodn. for efficient transcription - avoids
XX PT cloning of deoxyribonucleic acid by expression polymerase chain
XX PT reaction for translation
XX PS
XX PS Disclosure; Fig 2; 37pp; English.
XX CC The sequences given in AAQ24812 - AAQ24815 are universal promoter (UP)
XX CC sequences which contain a double stranded RNA transcription
XX CC promoter, an untranslated leader sequence enhancing translation
XX CC activity followed by three codons, the first of which encodes Met.
XX CC These UP's can be used in a process described as expression
XX CC polymerase chain reaction (E-PCR). The active polymerase binding
XX CC site used in this invention is the one for viral T7 RNA polymerase,
XX CC however, any promoter site may be used that corresponds to the RNA
XX CC polymerase that will be employed for the transcription of the DNA.
XX CC Promoter sites for suitable polymerases that could be used are
XX CC those for the SP6 polymerase, the T3 or T4 phage polymerases or the
XX CC ghl promoter. The untranslated leader (UTL) sequence between the T7
XX CC promoter and the initial ATG codon is derived from the coat protein
XX CC mRNA of the alfalfa mosaic virus (AMV). In vitro translation of mRNA
XX CC is often dependant on the presence of, and the characteristics of, an
XX CC UTL sequence 5' to the initiation codon. It has been shown that
XX CC replacement of a genes native UTL with the AMV UTL can increase
XX CC translational efficiency by as much as 35-fold. Other UTL sequences
XX CC may be substituted for this AMV UTL.
XX SQ Sequence 71 BP; 19 A; 16 C; 7 G; 29 T; 0 other;
XX
XX Query Match 0.6%; Score 25.8; DB 13; Length 71;
XX Best Local Similarity 63.9%; Pred. NO. 2.4e+03;
XX Matches 39; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
XX
XX QY 626 ttggtaccacacactataatttggatgataatcttccttcaagaactccacaa 685
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX Db 7 ttctaatacagactacactataggttttatttatttcttcaataactccacat 66
XX
XX QY 686 g 686
XX |
XX Db 67 g 67
XX
XX RESULT 15
XX ID AAQ24815
XX AC AAQ24815;
XX XX

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DT 19-NOV-1992 (first entry)
XX DE Universal promoter-4.
XX XX
XX UP; untranslated leader sequence; E-PCR; T7 RNA polymerase; SP6;
XX KW T3; T4; ghl; alfalfa mosaic virus; ds.
XX OS Synthetic.
XX FH
XX FH Key Location/Qualifiers
XX FT 10..26
XX FT promoter /tag= a
XX FT /label= T7_promoter
XX FT 27..64
XX FT 5'UTR /tag= b
XX FT /label= UTL_from_AMV
XX PN
XX PN WO9207949-A.
XX PD 14-MAY-1992.
XX PF 05-NOV-1991; 91WO-US08291.
XX PR 05-NOV-1990; 90US-0609318.
XX PA (USSA ) US SEC OF ARMY.
XX PI Kaln KC, Lanar DE;
XX PI WPI: 1992-183684/22.
XX DR
XX XX Protein in vitro prodn. for efficient transcription - avoids
XX PT cloning of deoxyribonucleic acid by expression polymerase chain
XX PT reaction for translation
XX PS
XX PS Disclosure; Fig 4; 37pp; English.
XX CC The sequences given in AAQ24812 - AAQ24815 are universal promoter (UP)
XX CC sequences which contain a double stranded RNA transcription
XX CC promoter, an untranslated leader sequence enhancing translation
XX CC activity followed by three codons, the first of which encodes Met.
XX CC These UP's can be used in a process described as expression
XX CC polymerase chain reaction (E-PCR). The active polymerase binding
XX CC site used in this invention is the one for viral T7 RNA polymerase,
XX CC however, any promoter site may be used that corresponds to the RNA
XX CC polymerase that will be employed for the transcription of the DNA.
XX CC Promoter sites for suitable polymerases that could be used are
XX CC those for the SP6 polymerase, the T3 or T4 phage polymerases or the
XX CC ghl promoter. The untranslated leader (UTL) sequence between the T7
XX CC promoter and the initial ATG codon is derived from the coat protein
XX CC mRNA of the alfalfa mosaic virus (AMV). In vitro translation of mRNA
XX CC is often dependant on the presence of, and the characteristics of, an
XX CC UTL sequence 5' to the initiation codon. It has been shown that
XX CC replacement of a genes native UTL with the AMV UTL can increase
XX CC translational efficiency by as much as 35-fold. Other UTL sequences
XX CC may be substituted for this AMV UTL.
XX SQ Sequence 73 BP; 19 A; 17 C; 8 G; 29 T; 0 other;
XX
XX Query Match 0.6%; Score 25.8; DB 13; Length 73;
XX Best Local Similarity 63.9%; Pred. NO. 2.4e+03;
XX Matches 39; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
XX
XX QY 626 ttgattaccacacactataatttggatgataatcttccttcaagaactccacaa 685
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX Db 7 ttctaatacagactacactataggttttatttatttcttcaataactccacat 66
XX
XX QY 686 g 686
XX |
XX Db 67 g 67
XX

```

us-09-301-380-1.rng

ug 14 08:10:40 2002

Search completed: August 13, 2002, 22:49:51
Job time 8725 sec

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OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 19:38:44 ; Search time 82.1 Seconds

(without alignments)
12368.440 Million cell updates/secTitle: US-09-301-380-1
Perfect score: 4134
Sequence: 1 ctcaaaagttcccgcatga.....tggtagagatattttc 4134Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 38353 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 576162

Minimum DB seq length: 15
Maximum DB seq length: 100Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

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2: /cgn2_6/prodata/1/lna/5B.COMB.seq:*
3: /cgn2_6/prodata/1/lna/6A.COMB.seq:*
4: /cgn2_6/prodata/1/lna/6B.COMB.seq:*
5: /cgn2_6/prodata/1/lna/PCTUS.COMB.seq:*
6: /cgn2_6/prodata/1/lna/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	25	0.6	70	1	US-08-441-430-9
2	24	0.6	100	4	US-09-564-805-23
3	23.6	0.6	67	4	US-09-025-7698-83
4	23.4	0.6	66	2	US-08-709-874A-15
5	23.4	0.6	66	4	US-09-104-382-15
6	23	0.6	60	3	US-08-415-655-10
7	22.8	0.6	63	1	US-08-386-495-1
8	22.8	0.6	63	5	PCT-US96-02331-1
9	22.8	0.6	78	1	US-08-446-102-1
10	22.8	0.6	78	1	US-08-446-102-2
11	22.8	0.6	78	4	US-08-617-010C-15
12	22.8	0.6	78	4	US-09-566-591-15
13	22.8	0.6	100	4	US-09-242-690A-58
14	22.6	0.5	94	1	US-08-105-483-447
15	22.6	0.5	94	1	US-08-105-483-448
16	22.6	0.5	94	1	US-08-105-483-447
17	22.6	0.5	94	1	US-08-709-209-447
18	22.6	0.5	94	1	US-08-709-209-448
19	22.6	0.5	94	1	US-08-303-275-159
20	22.6	0.5	94	1	US-08-303-275-160
21	22.6	0.5	94	1	US-08-458-101-447
22	22.6	0.5	94	1	US-08-458-101-448
23	22.6	0.5	100	3	US-08-836-561-61
24	22.2	0.5	78	4	US-09-240-078-43
25	22.2	0.5	77	1	US-08-242-663A-3
26	22.2	0.5	77	5	PCT-US95-06132-3
27	22.2	0.5	79	2	US-08-184-009-158
27	22.2	0.5	79	2	US-08-458-356-158

C	28	22.2	0.5	79	4	US-08-460-736-158	Sequence 158, App
	29	22.2	0.5	84	1	US-08-182-175A-27	Sequence 27, App1
	30	22.2	0.5	84	1	US-08-474-633A-68	Sequence 68, App1
	31	22.2	0.5	84	5	PCT-US92-06412-27	Sequence 27, App1
	32	22.2	0.5	95	2	US-08-332-766A-41	Sequence 41, App1
	33	22.2	0.5	60	1	US-08-153-848-10	Sequence 10, App1
	34	22.2	0.5	60	3	US-09-299-843A-10	Sequence 10, App1
	35	22.2	0.5	60	4	US-09-088-337B-10	Sequence 10, App1
	36	22.2	0.5	60	5	PCT-US93-11153-10	Sequence 10, App1
	37	22.2	0.5	90	1	US-08-513-846-2	Sequence 2, App11
	38	22.2	0.5	90	1	US-08-513-846-18	Sequence 18, App1
	39	22.2	0.5	93	2	US-08-105-989-12	Sequence 12, App1
	40	22.2	0.5	93	3	US-09-138-922-12	Sequence 25, App1
C	41	21.8	0.5	56	1	US-08-441-430-25	Sequence 25, App1
C	42	21.8	0.5	76	3	US-08-284-516C-22	Sequence 42, App1
C	43	21.8	0.5	81	1	US-08-238-863-42	Sequence 42, App1
C	44	21.8	0.5	81	1	US-08-443-407-42	Sequence 186, App
C	45	21.8	0.5	81	5	PCT-US95-05600-186	

ALIGNMENTS

RESULT 1
US-08-441-430-9
Sequence 9, Application US/08441430
Patent No. 5681942
GENERAL INFORMATION:
APPLICANT: Buchwald, Manuel
APPLICANT: Strathdee, Craig A.
APPLICANT: Wevrick, Rachel
APPLICANT: Mathew, Christopher George Porter
TITLE OF INVENTION: Fancorn Anemia Type C Gene
NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard J. Polley, Esq.
ADDRESSEE: Klarquist, Sparkman, Campbell, Leigh &
ADDRESSEE: Whinston, LLP
STREET: 121 S.W. Salmon, Suite 1600
CITY: Portland
STATE: Oregon
COUNTRY: U.S.A.
ZIP: 97204
COMPUTER READABLE FORM:
MEDIUM TYPE: Disk, 3+1-inch
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: WordPerfect 5.1/ASCII Text File
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,430
FILING DATE: May 15, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 07/876,285
FILING DATE: April 29, 1992
APPLICATION NUMBER: U.S. 07/918,313
FILING DATE: July 21, 1992
APPLICATION NUMBER: U.S. 08/003,963
FILING DATE: January 15, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Richard J. Polley, Esq.
REGISTRATION NUMBER: 28,107
REFERENCE/DOCKET NUMBER: 3812-42824
TELECOMMUNICATION INFORMATION:
TELEPHONE: (503) 226-7391
TELEFAX: (503) 228-9446
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double stranded
TOPOLOGY: Linear
MOLECULE TYPE: Genomic DNA

HYPOTHETICAL: NO
 AMTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 US-08-441-430-9

Query Match 0.6%; Score 25; DB 1; Length 70;
 Best Local Similarity 61.5%; Pred. No. 5.2e+02;
 Matches 40; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 3449 aaatgttaaatgttcctcgagctcttctggttaaaaggtctaatgccaagaacagcat 3508
 DB 4 ACAGAGTAATCTGCTCGACACTCTTGAATTAATGATTAATAAGTCTGCTT 63

QY 3509 acaaa 3513
 DB 64 AAAAA 68

RESULT 2
 US-09-564-805-23/C
 Sequence 23, Application US/09564805
 Patent No. 6333403

GENERAL INFORMATION:
 APPLICANT: Tavligian, Sean V.
 APPLICANT: Teng, David H.F.
 APPLICANT: Simard, Jacques M.
 APPLICANT: Rommens, Johanna M.
 APPLICANT: Myriad Genetics, Inc.
 TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes
 FILE REFERENCE: 2318-258
 CURRENT APPLICATION NUMBER: US/09/564,805
 CURRENT FILING DATE: 2000-05-05
 PRIOR APPLICATION NUMBER: US 60/107,468
 PRIOR FILING DATE: 1998-11-06
 PRIOR APPLICATION NUMBER: 09/434,382
 PRIOR FILING DATE: 1999-11-05
 NUMBER OF SEQ ID NOS: 240
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 23
 LENGTH: 100
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(100)
 OTHER INFORMATION: exon 20
 US-09-564-805-23

Query Match 0.6%; Score 24; DB 4; Length 100;
 Best Local Similarity 54.5%; Pred. No. 1.3e+03;
 Matches 48; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 3297 caaatgcaagcgttaataccagaacatcgaacacttctgctgagctgagaccta 3356
 DB 94 CAATGCAATGTTGGCAACGAGCAATGATTAATCTTCCACTGAGACATGAGATCTC 35

QY 3357 tgccaataatcagttgggaatatgagga 3384
 DB 34 AGCCCTTCTCTGAAGGCAATTTGGCAGGA 7

RESULT 3
 US-09-025-769B-83/C
 Sequence 83, Application US/09025769B
 Patent No. 6300064
 GENERAL INFORMATION:
 APPLICANT: Knappik, Achim
 APPLICANT: Pack, Peter
 APPLICANT: Ilag, Vic

APPLICANT: Ge, Liming
 APPLICANT: Moroney, Simon
 APPLICANT: Plueckhuhn, Andreas
 TITLE OF INVENTION: Protein/(Poly)peptide Libraries
 NUMBER OF SEQUENCES: 373
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
 STREET: 1251 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA

ZIP: 10021
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/025,769B
 FILING DATE: 18-FEB-1998
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95 11 3021.0
 FILING DATE: 18-AUG-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: James F. Haley, Jr., Esq.
 REGISTRATION NUMBER: 27,794
 REFERENCE/DOCKET NUMBER: MORPHO/5
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212)596-9000
 TELEFAX: (212)596-9090

INFORMATION FOR SEQ ID NO: 83:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 67 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: other nucleic acid
 DESCRIPTION: /desc = "synthetic oligonucleotide"

US-09-025-769B-83

Query Match 0.6%; Score 23.6; DB 4; Length 67;
 Best Local Similarity 76.3%; Pred. No. 1.3e+03;
 Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1228 ctgtcccccagagagatgagacattgacatgcagagc 1265
 DB 39 CTGTCTCCGCGGCGAGCTGCACTGAGCTGCAGAGC 2

RESULT 4
 US-08-709-874A-15
 Sequence 15, Application US/08709874A
 Patent No. 5854040

GENERAL INFORMATION:
 APPLICANT: Ozaki, Akio
 APPLICANT: Mori, Hideo
 APPLICANT: Shibasaki, Takeshi
 APPLICANT: Ando, Katsuhiko
 APPLICANT: Chiba, Shigeru
 TITLE OF INVENTION: Process for Producing
 TITLE OF INVENTION: Trans-4-Hydroxy-L-Proline
 NUMBER OF SEQUENCES: 29
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ANTONELLI, TERRY, STOUT AND KRAUS, LLP
 STREET: 1300 NORTH SEVENTEENTH STREET
 CITY: ARLINGTON
 STATE: VIRGINIA
 COUNTRY: U.S.A.
 ZIP: 22209

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/709,874A
FILING DATE: 09-SEP-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/301,653
FILING DATE: 07-SEP-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/482,554
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Terry, David T.
REGISTRATION NUMBER: 20178
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
TELEFAX: 703-312-6666
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 66 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid, synthetic DNA
US-08-709-874A-15

Query Match 0.6%; Score 23.4; DB 2; Length 66;
Best Local Similarity 60.0%; Pred. No. 1.5e+03;
Matches 39; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 3266 ctggtatcttcaccctgtagtgcagggcaaaagttcaagctgtaataaccagagatca 3325
DB 1 CCGGAATTGCTGACTTCACGCGGCCGACCATCTTCATCAGCAGATAGCCCGCTTC 60

QY 3326 gcaat 3330
DB 61 ACGAT 65

RESULT 5
US-09-104-382-15
Sequence 15, Application US/09104382
Patent No. 624231
GENERAL INFORMATION:
APPLICANT: Ozaki, Akio
APPLICANT: Mori, Hideo
APPLICANT: Shibasaki, Takeshi
APPLICANT: Ando, Katsuhiko
APPLICANT: Chiba, Shigeru
TITLE OF INVENTION: Process for Producing
TITLE OF INVENTION: Trans-4-Hydroxy-L-Proline
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: ANTONELLI, TERRY, STOUT AND KRAUS, LLP
STREET: 1300 NORTH SEVENTEENTH STREET
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22209
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/104,382
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/709,874
FILING DATE: 09-SEP-1996
APPLICATION NUMBER: 08/301,653
FILING DATE: 07-SEP-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/482,554
FILING DATE: 07-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Terry, David T.
REGISTRATION NUMBER: 20178
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
TELEFAX: 703-312-6666
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 66 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid, synthetic DNA
US-09-104-382-15

Query Match 0.6%; Score 23.4; DB 4; Length 66;
Best Local Similarity 60.0%; Pred. No. 1.5e+03;
Matches 39; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 3266 ctggtatcttcaccctgtagtgcagggcaaaagttcaagctgtaataaccagagatca 3325
DB 1 CCGGAATTGCTGACTTCACGCGGCCGACCATCTTCATCAGCAGATAGCCCGCTTC 60

QY 3326 gcaat 3330
DB 61 ACGAT 65

RESULT 6
US-08-415-655-10/C
Sequence 10, Application US/08415655
Patent No. 6025480
GENERAL INFORMATION:
APPLICANT: Massague, Joan
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES ENCODING
TITLE OF INVENTION: P73KIP2, A CYCLIN-DEPENDENT KINASE INHIBITOR AND USES OF
TITLE OF INVENTION: SAME
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/415,655
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 1747/47418
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-415-655-10

Query Match

Best Local Similarity 0.6%; Score 23; DB 3; Length 60;
Matches 35; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 1840 tccctcactgctgtgctgaagacacaggaactgcccagtgatgaagt 1894
Db 59 TCCATGCTGTTCTGCTGCGGAGGTACAGTCGACATGCCCATGTCGAAGCT 5

RESULT 7

US-08-386-495-1/C
Sequence 1, Application US/08386495
Patent No. 5753434

GENERAL INFORMATION:

APPLICANT: Ryner, Lisa C.
APPLICANT: Baker, Bruce S.
APPLICANT: Masserman, Steven A.
APPLICANT: Castillon, Diego H.
TITLE OF INVENTION: Methods and Compositions for Altering
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,495
FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REFERENCE/DOCKET NUMBER: 8600-0153
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 63 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 3x repeat probe
US-08-386-495-1

Query Match

Best Local Similarity 0.6%; Score 22.8; DB 1; Length 63;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 1608 tgaagatattatgtttacatgaataatggaacttggaaatcaaatg 1657
Db 54 TGAAGATGATCTATGTGATTGAAGATGATCTATGTGATTGAAGATG 5

RESULT 8

PCT-US96-02331-1/C
Sequence 1, Application PC/TUS9602331

GENERAL INFORMATION:

APPLICANT: The Board of Trustees of the Leland Stanford Junior
APPLICANT: University
APPLICANT: Board of Regents, The University of Texas System
TITLE OF INVENTION: Methods and Compositions for Altering
TITLE OF INVENTION: Sexual Behavior
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/02331
FILING DATE: 09-FEB-1996
CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/386,495
FILING DATE: 10-FEB-1995
ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REFERENCE/DOCKET NUMBER: 8600-0153.41
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 63 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 3x repeat probe
PCT-US96-02331-1

Query Match

Best Local Similarity 0.6%; Score 22.8; DB 5; Length 63;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 1608 tgaagatattatgtttacatgaataatggaacttggaaatcaaatg 1657
Db 54 TGAAGATGATCTATGTGATTGAAGATGATCTATGTGATTGAAGATG 5

RESULT 9

US-08-446-102-1/C
Sequence 1, Application US/08446102

GENERAL INFORMATION:

APPLICANT: SMITH, Cassandra L.
APPLICANT: VAAR, Ron
APPLICANT: SZAFRANSKI, Przemyslaw
APPLICANT: CANTOR, Charles R.

APPLICATION NUMBER: 08/178,216
FILING DATE: 06-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/001,323
FILING DATE: 07-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24736-2012
TELECOMMUNICATION INFORMATION:
TELEPHONE: 858-450-8400
TELEFAX: 619-587-5360
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-617-010C-15

Query Match 0.6%; Score 22.8; DB 4; Length 78;
Best Local Similarity 59.1%; Pred. No. 2.5e+03;
Matches 39; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1994 ccagcgctgtcttagcgtgtgtctctaccacccacccacccgttaccgattgc 2053
DB 10 CCAGGATTCGGTTAGCGTACGCTGCTGCTGCTGCTGATGATCGACGCAAT 69

QY 2054 caatc 2059
DB 70 CAGATC 75

RESULT 12
US-09-566-591-15
Sequence 15, Application US/09566591
Patent No. 6238871
GENERAL INFORMATION:
APPLICANT: Hubert K'ster
TITLE OF INVENTION: DNA SEQUENCING BY MASS SPECTROMETRY
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Heller Ehtman White & McAniff
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037-9103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/566,591
FILING DATE: 08-May-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/617,010
FILING DATE: 18-MAR-1996
APPLICATION NUMBER: 08/178,216
FILING DATE: 06-JAN-1994
APPLICATION NUMBER: 08/001,323
FILING DATE: 07-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24736-2012B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 858-450-8400

TELEFAX: 858-587-5360
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-566-591-15

Query Match 0.6%; Score 22.8; DB 4; Length 78;
Best Local Similarity 59.1%; Pred. No. 2.5e+03;
Matches 39; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1994 ccagcgctgtcttagcgtgtgtctctaccacccacccacccgttaccgattgc 2053
DB 10 CCAGGATTCGGTTAGCGTACGCTGCTGCTGCTGCTGATGATCGACGCAAT 69

QY 2054 caatc 2059
DB 70 CAGATC 75

RESULT 13
US-09-242-690A-58
Sequence 58, Application US/09242690A
Patent No. 6284534
GENERAL INFORMATION:
APPLICANT: KONDO, KEIJI
TITLE OF INVENTION: YEAST VECTOR AND METHOD OF PRODUCING PROTEINS USING THE
TITLE OF INVENTION: SAME
FILE REFERENCE: 049441/0118
CURRENT APPLICATION NUMBER: US/09/242,690A
CURRENT FILING DATE: 1999-02-23
PRIOR APPLICATION NUMBER: PCT/JP97/02924
PRIOR FILING DATE: 1997-08-22
PRIOR APPLICATION NUMBER: JP 8/241062
PRIOR FILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 66
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 58
LENGTH: 100
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-242-690A-58

Query Match 0.6%; Score 22.8; DB 4; Length 100;
Best Local Similarity 56.8%; Pred. No. 2.9e+03;
Matches 42; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 2519 atgtacaaatatatgtctcagcgacgacacccctgttaccatcattgataaagtc 2578
DB 1 aagtcagcagccttaaatgattccctcacccctaccctgttaccgactgtatcgtgttt 60

QY 2579 aggcctgaatgac 2592
DB 61 tggatgttaacgac 74

RESULT 14
US-08-105-483-447
Sequence 447, Application US/08105483
Patent No. 5494807
GENERAL INFORMATION:
APPLICANT: PAOLETTI, ENZO
TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE

TITLE OF INVENTION: STRAIN
NUMBER OF SEQUENCES: 462
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Curtis, Morris & Safford
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/105,483
FILING DATE: 12-AUG-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/847,951
FILING DATE: 06-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2400
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 447:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-105-483-447

Query Match 0.5%; Score 22.6; DB 1; Length 94;
Best Local Similarity 54.1%; Pred. No. 3.2e+03;
Matches 46; Conservative 0; Mismatches 39; Indels 0; Gaps 0;
QY 619 ccccaattgattaccaccataataatttgatgataattcccttcaagaactt 678
DB 4 CCTCCTTTAGAAACACGAGATATTATTTCTTGTGGATCAATCTTAAACCTCCT 63
QY 679 ccacaagtgtgagaggttctcaag 703
DB 64 TTTAGAAAAGATAGATATTGAAG 88

RESULT 15
US-08-105-483-448/C
Sequence 448, Application US/08105483
Patent No. 3494807
GENERAL INFORMATION:
APPLICANT: Paolelli, Enzo
TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE
TITLE OF INVENTION: STRAIN
NUMBER OF SEQUENCES: 462
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Curtis, Morris & Safford
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/105,483
FILING DATE: 12-AUG-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/847,951
FILING DATE: 06-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2400
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 448:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-105-483-448

Query Match 0.5%; Score 22.6; DB 1; Length 94;
Best Local Similarity 54.1%; Pred. No. 3.2e+03;
Matches 46; Conservative 0; Mismatches 39; Indels 0; Gaps 0;
QY 619 ccccaattgattaccaccataataatttgatgataattcccttcaagaactt 678
DB 91 CCTCCTTTAGAAACACGAGATATTATTTCTTGTGGATCAATCTTAAACCTCCT 32
QY 679 ccacaagtgtgagaggttctcaag 703
DB 31 TTTAGAAAAGATAGATATTGAAG 7

Search completed: August 13, 2002, 22:42:33
Job time: 11029 sec

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adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pTZ19 vector (Pharmacia). Library went through one round of normalization to a Cot = 5. Library constructed by M. Fatima Bonaldo. This library was constructed from the same fetus as the fetal lung library, Soares fetal lung NDH1.9W."

BASE COUNT 16 a 21 c 25 g 23 t
ORIGIN

Query Match 0.7%; Score 28.8; DB 9; Length 85;
Best Local Similarity 65.6%; Pred. No. 8.3e+03;
Matches 42; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

OY 141 gaagcgcttaccgagagtgccctgctctctctgccaagtattatgc 200
DB 1 GAGGCGCCATCTGTGGGCTTATGCTTCTGCTGCTACTGTCAGCTGATGACAGA 60

OY 201 actg 204
DB 61 TCTG 64

RESULT 2
LOCUS A1007269 88 bp mRNA linear EST 12-JUN-1998
DEFINITION ua33h03.r1 Soares mammary_gland_NDMG Mus musculus cDNA clone
IMAGE:1348565 5' similar to TR:Q15170 Q15170 ; mRNA sequence.
ACCESSION A1007269
VERSION A1007269.1 GI:3216826
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 88)
Marras, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:697357
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 6.

FEATURES

source

1..88
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:1348565"
/clone_1lb="Soares_mammary_gland_NDMG"
/sex="male"
/tissue_type="mammary gland"
/dev_stage="4 weeks"
/lab_host="DH10B"
/note="Organ: mammary gland; Vector: pTZ19-Pac (Pharmacia)
RI; 1st strand cDNA was primed with a Not I - oligo(dT)
primer [5'
TGTTACCAATCTGAAGTGGAGCGCGCGAATGATTTTTTTTTTTTTTTTTTTTTT

T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pTZ19 vector.
RNA provided by Dr. Minoru Ko, Wayne State Univ. Library
constructed and normalized by Bento Soares and M. Fatima
Bonaldo."

BASE COUNT 34 a 10 c 29 g 15 t
ORIGIN

Query Match 0.7%; Score 27.6; DB 9; Length 88;
Best Local Similarity 60.8%; Pred. No. 1.8e+04;
Matches 45; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

OY 1865 acaagagggaatgcccagtgatgaaggttcactgttacaagatcatctagttag 1924
DB 12 ACAACAGGCAACTGAGCATGATCTGTGTAGAGATGAGAGAGAGATGAGATCA 71

OY 1925 ctgatgtcagtgac 1938
DB 72 GGAAGTGAAGAAC 85

RESULT 3
LOCUS BE322578 84 bp mRNA linear EST 21-DEC-2000
DEFINITION NF006E05IN1F1036 Insect herbivory Medicago truncatula cDNA clone
IMAGE:1348565 5' mRNA sequence.
ACCESSION BE322578
VERSION BE322578.2 GI:11962897
KEYWORDS EST.
SOURCE barrel medic.
ORGANISM Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eustroids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
Medicago.
1 (bases 1 to 84)
Korth, K., Scott, A.D., Harris, A.R., Gonzales, R.A., Bell, C.J., Flores
H.R., Iman, J.T., Weller, J.W. and May, G.D.
Expressed Sequence Tags from the Samuel Roberts Noble Foundation
Medicago truncatula Insect herbivory library
Unpublished (2000)
On Jul 14, 2000 this sequence version replaced gi:9196355.
Contact: Korth K
Dept. of Plant Pathology
University of Arkansas
217 Plant Science Building, Fayetteville, AR 72701, USA
Tel: 501 575 5191
Fax: 501 575 5191
Email: Kkorth@comp.uark.edu
Medicago Genome Initiative accession: MGI:S:25317
Insert Length: 855 Std Error: 0.00
Plate: 006 row: E column: 05
Seq primer: TCACACGAGAACGCTATGAC.

FEATURES

source

1..84
/organism="Medicago truncatula"
/db_xref="taxon:3880"
/clone="NF006E05IN"
/clone_1lb="Insect herbivory"
/tissue_type="local and systemic leaves"
/dev_stage="mature"
/note="Vector: Lambda Zap; Library was produced from fully
spodoptera exigua (beet armyworm) for 24 hours. Systemic
(undamaged leaves from injured plants) and wounded leaves
were harvested and pooled."
BASE COUNT 33 a 10 c 25 g 16 t
ORIGIN

Query Match 0.6%; Score 26.6; DB 10; Length 84;

Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0102 row: K column: 08
Seq primer: CGGTGTAACGACGCGCCACT
Class: plasmid ends
High quality sequence stop: 71.
Location/Qualifiers

FEATURES

source

1. 71
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U00C2M0102K08"
/clone_1lb="Mouse 10kb plasmid U00C1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42uv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473211419b/AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

17 a 10 c 17 g 27 t

ORIGIN

Query Match Best Local Similarity 60.9%; Pred. No. 5e+04; Length 71;

Matches 42; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 2386 tcaagagcctgataattggaatactggaagccttgatggttcgaactcaatgag 2445

DB 3 TTAGTCACATGGCATCTGTGAGATACATGGACATTTTCATATTTTGCATCTGTTGAG 62

QY 2446 ccaagcctt 2454

DB 63 GCCGTGATTT 71

RESULT 14

BE289162

LOCUS BE289162 85 bp mRNA linear EST 26-OCT-2000
DEFINITION 601092758F1 NCI_CGAP_Mam5 Mus musculus cDNA clone IMAGE:3487430 5',
mRNA sequence.

ACCESSION BE289162

VERSION BE289162.1 GI:9169349

KEYWORDS EST.

SOURCE house mouse.

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 85)

REFERENCE NIH-MGC http://mgc.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

CONTACT: Robert Strausberg, Ph.D.

Email: cgaabs-r@mail.nih.gov

Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
Plate: LLM8525 row: c column: 15
High quality sequence stop: 85.
Location/Qualifiers

FEATURES

source

1. 85
/organism="Mus musculus"
/strain="C57/B6"
/db_xref="taxon:10090"
/clone="IMAGE:3487430"
/clone_1lb="NCI_CGAP_Mam5"
/tissue_type="tumor, gross tissue"
/dev_stage="7 months"
/lab_host="DH10B"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: Sall;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dr.
Library constructed by Life Technologies. Investigators
providing samples: Lothar Hennighausen/Robin Humphreys,
NIH"

BASE COUNT 35 a 10 c 22 g 18 t

ORIGIN

Query Match Best Local Similarity 63.9%; Pred. No. 5.5e+04; Length 85;

Matches 39; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 3410 aataatggttagcagcgaagaagaatggaagaatggaatggaatggttcgcga 3469

DB 5 AAAAGCGCAAGAGAGCTGCAGACAGCATGTTGAAAAAATATATCTGTGTGCA 64

QY 3470 g 3470

DB 65 g 65

RESULT 15

FR0022001

LOCUS FR0022001 99 bp DNA linear GSS 10-DEC-1997
DEFINITION F.rubripes GSS sequence, clone 070J16a2, genomic survey sequence.

ACCESSION AL014872

VERSION AL014872.1 GI:2681240

KEYWORDS GSS: genome survey sequence.

SOURCE Takifugu rubripes.

ORGANISM Takifugu rubripes

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetraodontidae; Takifugu.

1 (bases 1 to 99)

REFERENCE Elgar,G., Clark,M., Smith,S., Meek,S., Warner,S., Umrania,Y.,
Williams,G. and Brenner,S.

Direct Submision

Submitted (08-DEC-1997) MRC Human Genome Mapping Project Resource

Centre Hinxton, Cambridge, CB10 1SB. Email: biolhelphgmp.mrc.ac.uk

Vector: phluescript II KS

V_type: phagemid

PRIMER: KS

DESCR: One pass dye-terminator sequencing of cosmid cloned genomic

sequence.

FEATURES

source

1. 99
/organism="Takifugu rubripes"
/db_xref="taxon:31033"
/clone_1lb="cosmid 070J16"
/clone="070J16a2"

BASE COUNT

24 a 26 c 23 g 24 t 2 others

ORIGIN

